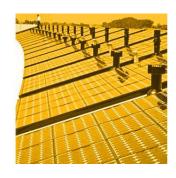
INDIANA WIND ENERGY







SUPPLY CHAIN POTENTIAL: THE 70% SOLUTION



Overview

- REPP models the potential for major renewable development to provide manufacturing stimulus.
 - For wind projects, 70% of the labor required is in the manufacturing stage.
- State and federal policy initiatives must pursue this potential...at this time federal support is largely missing.



Market Size: Renewable Generation

- Stabilization wedge approach. Pacala and Socolow call for 2 million MW of solar or wind for one wedge.
 - Correction shows one wedge requires removing 15 million tons of carbon per year.
 - Requires approximately 18,500 MW per year.
 - Ten year program means \$150 billion capital investment. Wind projects will capture major share of market.



STATE INITIATIVES

- Assemble portfolio of traditional incentives.
 - Look beyond these for strategic assets...e.g. submerged lands, transmission access.
 - Explore the boundary of the Commerce Clause with initiatives such as a set aside for projects with state content.



Federal Initiatives

- Get beyond incentives for projects.
 - Federal policy expects three outcomes:
 - More CO2 free generation.
 - Lower costs per kWh.
 - Jobs
 - More projects will deliver only one of these.



Manufacturing Incentives and Support

- Expand CREB's for renewable manufacturing.
 - Provide critical support for supply chain entrants, e.g. provide standards to qualify.



Innovation

- The competitive advantage of wind is its ability for rapid technology innovation.
- Successful innovation requires a transmission belt to take basic science to lab prototype to initial commercial scale up to market participant.
- Successful innovation requires a workable, efficient, permanent commercialization policy. The DOE Loan Guarantee needs shock therapy.

